BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

First and Final

Name of Work: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Civil Aim Consultants & Engineers

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NO.01,Satvika Nilaya , Opp. Widia Poorna Prajna School,
Ramaiah Layout,Nagasandra,Bangalore-560073

Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 18.10.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri G Venkategowda**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		September- 2023
DATE OF TESTING		16.10.2023 to 18.10.2023

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	138 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	332 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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QC ABSTRACT

Nameof Work: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials(1:3:6)	47.36 Cum	1	1	Pass
2	M15	207.09 Cum	8	9	Pass
3	M20	19.73 Cum	3	3	Pass
4	Cobble Stones-60mm	902.07 Sqm	1	1	Pass
5	Kerbstones	1463.00 Nos	1	1	Pass
6	Np3-1200mm	12.00 Cum	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date : 18.10.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of Work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Date of Testing : 18.10.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	142	14.20	21.80	78.2	75-100
1.18	164	16.40	38.20	61.8	55-90
600 Micron	155	15.50	53.70	46.3	35-59
300 Micron	240	24.00	77.70	22.3	8-30
150 Micron	171	17.10	94.80	5.2	0-10

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24 Date : 18.10.2023

TEST REPORT ON FINE AGGREGATES (SAND)

IS 2116-1980

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of Work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Date of Testing	: 18.10.2023
Material	: Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	20	2.00	2.00	98.0	90-100
1.18	53	5.30	7.30	92.7	70-100
600 Micron	85	8.50	15.80	84.2	40-100
300 Micron	241	24.10	39.90	60.1	5-70
150 Micron	515	51.50	91.40	8.6	0-15

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date : 18.10.2023

TEST REPORT ON COARSE AGGREGATES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of Work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Date of Testing	: 18.10.2023
IS Code	: IS 383:2016
	: IS 2386 (Part 1):1963(RA 2011)
Material	: 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	180	3.6	3.6	96.4	95-100
10	2491	49.8	53.4	46.6	25-55
4.75	1873	37.5	90.9	9.1	0-10

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TEST REPORT ON COARSE AGGREGATES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of Work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Date of Testing	: 18.10.2023
IS Code	: IS 383:2016
	: IS 2386 (Part 1):1963(RA 2011)
Material	: 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	169	1.13	1.13	98.87	95-100
20	8197	54.65	55.77	44.23	30-70
10	3201	21.34	77.11	22.89	10-35
4.75	2795	18.63	95.75	4.25	0-5

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 30.11.2023

TEST REPORT OF GALVANIZED GRILL

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of Work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample Identification 75mm*12mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 30.11.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	587
2	Yeild Strength, N/mm^2	501

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Date: 30.11.2023

TEST REPORT OF GALVANIZED GRILL

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of Work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample Identification 20mm x 20mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 30.11.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	589
2	Yeild Strength, N/mm^2	505

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Date: 30.11.2023

TEST REPORT OF GALVANIZED GRILL

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of Work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample Identification 132 x 132mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 30.11.2023

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	601
2	Yeild Strength, N/mm^2	515

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Date: 30.11.2023

TEST REPORT OF GALVANIZED GRILL

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of Work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample Identification 50mm*6mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 30.11.2023

SL. NO	TESTS	RESULTS
1	Tensile Strength, N/mm^2	595
2	Yeild Strength, N/mm^2	512

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Date: 30.11.2023

TEST REPORT OF GALVANIZED GRILL

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of Work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample Identification 72*72*4.8mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 30.11.2023

SL. NO	TESTS	RESULTS
1	Tensile Strength, N/mm^2	607
2	Yeild Strength, N/mm^2	523

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

02.12.2023

Test Report Of Concrete Pipes

Customer	: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: Sri G Venkategowda, Contractor, Bangalore.
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Type of Sample	Concrete pipes of Class NP3 (1200mm Dia)
Techinical Reference	As Per IS-458:2003
Date of Testing	02.12.2023

Sl no	Internal Diameter in mm	Barrel wall Thickness in mm	Outer Dia in mm
1	1200mm	45.5mm	1200.3mm
Requirements as per IS 458:2003	1200 ± 3mm	45mm +3mm -1.5mm	----

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Job No.. CACE/BBMP/GVG/W.No.05/2023-24

Date: 04.12.2023

KERB STONE (CORE) TEST REPORT

Client : **: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,**
Agency : **: Sri G Venkategowda, Contractor, Bangalore.**
Name of Work : : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

No.of Sample Tested : 03
Date of Testing : 04.12.2023
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{30}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	71.00	0.339	2431.71	1.42	0.937	33.10	16.86	18.21	17.07	21.33
2	50.00	72.00	0.342	2419.16	1.44	0.940	33.30	16.96	18.32	17.21	21.51
3	50.00	73.00	0.355	2476.71	1.46	0.942	33.70	17.16	18.54	17.46	21.82

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Job No.:CACE/BBM[illegible] Date: [illegible].12.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri G Venkategowda,** Contractor, Bangalore.
Name of the work	:	Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Type of the test	:	Physical tests on Paver Blocks
Date of Testing	:	14.12.2023
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. **THICKNESS:**

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.14	60.16
2	02	60.18	

2. **COMPRESSIVE STRENGTH:**

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	772.8	24,100	32.06	320.6	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	770.5	24,100	31.97	319.7	

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 13.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.11.2023	13.11.2023	8.115	269.9	12.00
2	06.11.2023	13.11.2023	8.122	272.7	12.12
3	06.11.2023	13.11.2023	8.127	275.3	12.24

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 04.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.11.2023	04.12.2023	8.163	373.1	16.58
2	06.11.2023	04.12.2023	8.169	376.4	16.73
3	06.11.2023	04.12.2023	8.177	379.8	16.88

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 21.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.11.2023	21.11.2023	8.142	272.3	12.10
2	14.11.2023	21.11.2023	8.145	274.8	12.21
3	14.11.2023	21.11.2023	8.149	276.7	12.30

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 12.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.11.2023	12.12.2023	8.154	372.5	16.56
2	14.11.2023	12.12.2023	8.159	374.9	16.66
3	14.11.2023	12.12.2023	8.167	377.1	16.76

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 27.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	27.11.2023	8.146	280.4	12.46
2	20.11.2023	27.11.2023	8.151	275.9	12.26
3	20.11.2023	27.11.2023	8.157	278.1	12.36

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 19.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2023	19.12.2023	8.174	377.2	16.76
2	20.11.2023	19.12.2023	8.177	380.5	16.91
3	20.11.2023	19.12.2023	8.181	381.9	16.97

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 05.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.11.2023	05.12.2023	8.152	276.5	12.29
2	28.11.2023	05.12.2023	8.160	277.9	12.35
3	28.11.2023	05.12.2023	8.169	279.4	12.42

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 26.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.11.2023	26.12.2023	8.178	382.7	17.01
2	28.11.2023	26.12.2023	8.184	384.9	17.11
3	28.11.2023	26.12.2023	8.189	387.5	17.22

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 19.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.12..2023	19.12.2023	8.111	271.5	12.07
2	12.12..2023	19.12.2023	8.125	269.1	11.96
3	12.12..2023	19.12.2023	8.121	270.3	12.01

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 09.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.12..2023	09.01.2024	8.182	378.3	16.81
2	12.12..2023	09.01.2024	8.175	380.9	16.93
3	12.12..2023	09.01.2024	8.166	381.5	16.96

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 20.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2023	20.12.2023	8.125	268.3	11.92
2	13.12.2023	20.12.2023	8.132	271.5	12.07
3	13.12.2023	20.12.2023	8.143	272.1	12.09

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 10.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2023	10.01.2024	8.170	372.1	16.54
2	13.12.2023	10.01.2024	8.175	373.5	16.60
3	13.12.2023	10.01.2024	8.184	376.4	16.73

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 22.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2023	22.12.2023	8.105	265.9	11.82
2	15.12.2023	22.12.2023	8.109	266.7	11.85
3	15.12.2023	22.12.2023	8.115	267.3	11.88

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 12.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.12.2023	12.01.2024	8.159	376.3	16.72
2	15.12.2023	12.01.2024	8.163	374.8	16.66
3	15.12.2023	12.01.2024	8.168	375.2	16.68

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 03.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.12.2023	03.01.2024	8.139	268.3	11.92
2	27.12.2023	03.01.2024	8.142	270.1	12.00
3	27.12.2023	03.01.2024	8.148	272.8	12.12

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 24.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.12.2023	24.01.2024	8.177	367.9	16.35
2	27.12.2023	24.01.2024	8.184	369.3	16.41
3	27.12.2023	24.01.2024	8.185	372.5	16.56

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 04.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: Sri G Venkategowda, Contractor, Bangalore.
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2023	04.01.2024	8.116	272.5	12.11
2	28.12.2023	04.01.2024	8.129	274.3	12.19
3	28.12.2023	04.01.2024	8.137	276.9	12.31

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 25.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2023	25.01.2024	8.149	373.3	16.59
2	28.12.2023	25.01.2024	8.157	374.8	16.66
3	28.12.2023	25.01.2024	8.166	376.1	16.72

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 15.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2024	15.01.2024	8.119	335.2	14.90
2	08.01.2024	15.01.2024	8.124	346.5	15.40
3	08.01.2024	15.01.2024	8.136	352.8	15.68

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 05.02.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2024	05.02.2024	8.165	502.2	22.32
2	08.01.2024	05.02.2024	8.176	512.6	22.78
3	08.01.2024	05.02.2024	8.182	513.1	22.80

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 16.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.01.2024	16.01.2024	8.128	338.1	15.03
2	09.01.2024	16.01.2024	8.141	341.3	15.17
3	09.01.2024	16.01.2024	8.148	342.8	15.24

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 06.02.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.01.2024	06.02.2024	8.170	500.9	22.26
2	09.01.2024	06.02.2024	8.197	505.1	22.45
3	09.01.2024	06.02.2024	8.201	512.2	22.76

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 17.01.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri G Venkategowda, Contractor, Bangalore.**

Name of the work : Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2024	17.01.2024	8.125	342.2	15.21
2	10.01.2024	17.01.2024	8.133	343.5	15.27
3	10.01.2024	17.01.2024	8.154	344.8	15.32

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Job No.: CACE/BBMP/GVG/W.No.05/2023-24

Date: 07.02.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	: **Sri G Venkategowda, Contractor, Bangalore.**
Name of the work	: Improvements of pathway and grill fencing to Rajiv Gandhi park in ward no-05 , BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2024	07.02.2024	8.155	502.5	22.33
2	10.01.2024	07.02.2024	8.162	507.1	22.54
3	10.01.2024	07.02.2024	8.169	509.4	22.64

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